Fluorescence Spectrophotometer LX10FS

Email: info@labdex.com **website:** www.labdex.com

Description

LX10FS is a new generation of high-performance molecular luminescence analytical instrument with a 150W xenon lamp and photoelectric multiplier tube detectors that provide sufficient light intensity signal and detect sensitivity. An exquisite structure which has the characteristics of high detection sensitivity, fast scanning speed, wide spectrum measuring range, high dynamic range, fast 3D scanning and so on. Wide Spectral measurement range utilizing double monochromator design, excitation and emission wavelength range covering 200 nm to 900 nm, meet the needs of most fluorescence analysis.

Specifications

Excitation source	150 W Xenon lamp
Excitation wavelength	200 nm to 900 nm
Emission wavelength	200 nm to 900 nm
Excitation slit	1 nm, 2 nm, 5 nm, 10 nm, 20 nm
Emission slit	1 nm, 2 nm, 5 nm, 10 nm, 20 nm
Wavelength accuracy	±0.4 nm
Wavelength repeatability	≤ 0.2 nm
Signal-to-Noise ratio	S/N≥200 (10nm Slit) (P-P) S/N≥1200 (10nm Slit) (RMS) S/N≥12000 (10nm Slit) (RMSBG)
Detection limit	≤5×10-11 g/ml (Quinine sulfate solution)
Linearity	γ ≥0.995
Peak repeatability	≤ 1.5%
Stability (10 min) zero drift	±0.3
Stability (10 min) value limit	±1.5%
Wavelength scan speed	Multi-speed level, Maximum at 48000 nm/min
Photometric value	0.00 to 10000.00
Data interface	USB 2.0
Power	200 W

Power supply	AC 220 V/50 Hz; 110 V/60 Hz
Dimension	380 x 445 x 310 mm
Net weight	12 kg
Packing dimension	550 x 540 x 380 mm
Gross weight	14 kg

Features

- High sensitivity based on high-efficiency optical design and weak signal detection technology
- Wide spectral (200nm- 900nm) measurement range utilizes a double monochromator design
- Built-in optical gate, designed for unstable sample
- The high-speed digital signal processing unit provides the world's fastest scanning speed at 48000nm/min takes only 1 sec to get classic fluorescence spectra and 1 minute to get high-quality of three-dimensional fluorescence spectra
- Excitation light dual beam ratio monitoring system for high and stable fluorescence signal

Applications

- Widely used in fields of material research, pharmaceutical analysis, biochemical and clinical testing, water quality analysis and control, food safety testing (like dairy products, aquatic products, such as vitamin C, selenium, aflatoxin) and many more areas.

Standard Accessories

- 10mm Fluorescence cuvette (Quartz) x 1 pair(2 pcs)
- Fuse x 4pcs
- USB cable x 1pcs
- Power cable x 1pcs
- Data processing software

Optional Accessories

Accessories no.	Accessories name	Functions
1	10mm Cell holder adapter	Conventional liquid fluorescence sample
2	Peltier temperature control holder	Control the sample temperature 15-45℃

3	Double frequency filters	Remove the interference of frequency doubling
4	Membrane sample holder	For membrane sample
5	Powder sample holder	For powder samples
6	Auto polarization filter	Adjust the polarization light
7	Multi-function adapter	Base for different holders

71-75 Shelton Street Covent Garden, London WC2H 9JQ UK.
Email: info@labdex.com | Website: www.labdex.com